

ABSTRACT OF THE DISCLOSURE

5 The present invention provides a two VCSEL array mounted in a single can with a monitoring diode. One VCSEL is directed toward the can window (for coupling with an attached fiber optic in a completed subassembly) and the other is directed toward the monitor diode. The two VCSELS are electrically coupled in parallel, are connected to the same pins in the TO can, and are driven by the same source. Preferably the two VCSELS are identical or nearly identical. The current of the monitor diode is proportional to the light emitted by both VCSELS. Since the monitor diode measures incident light from the second VCSEL, no angle of reflection is affected by changes in temperature. Since the two VCSELS are coupled in parallel, the device has a naturally low impedance.